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1 [Effects of routing computations in content-based routing networks with mobile data sources](#)



Vinod Muthusamy, Milenko Petrovic, Hans-Arno Jacobsen

August 2005 MobiCom '05: Proceedings of the 11th annual international conference on Mobile computing and networking

Publisher: ACM

 Full text available: [pdf \(381.59 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),

[index terms](#)

This paper presents the first quantitative evaluation of the role of routing computations on performance when mobility is introduced to a content-based routing network. Additionally, the paper identifies the factors that affect the performance of a distributed ...

Keyw ords: mobility, multicast, publish/subscribe, routing

2 [Modeling and Optimization for the Design of IMS Networks](#)

Nisha Rajagopal, Michael Devetsikiotis

April ANSS '06: Proceedings of the 39th annual Symposium on Simulation
2006

Publisher: IEEE Computer Society

Full text available:  [pdf\(511.68 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

The IP Multimedia Subsystem (IMS) is envisioned as the solution for the next generation multimedia rich communication. Based on an open IP infrastructure, it enables convergence of data, speech, video and mobile network technology. The Session Initiation ...

3 [An algebraic approach to practical and scalable overlay network monitoring](#)



Yan Chen, David Bindel, Hanhee Song, Randy H. Katz

August SIGCOMM '04: Proceedings of the 2004 conference on Applications,
2004 technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available:  [pdf\(461.14 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
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Overlay network monitoring enables distributed Internet applications to detect and recover from path outages and periods of degraded performance within seconds. For an overlay network with n end hosts, existing systems either require $O(n^2)$...


Keyw ords: dynamics, load balancing, network measurement and monitoring,
numerical linear algebra, overlay, scalability

4 [Toward best maintenance practices in communications network management](#)

Faouzi Kamoun

September International Journal of Network Management, Volume 15 Issue 5
2005

Publisher: John Wiley & Sons, Inc.

Full text available:  [pdf\(132.43 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#),
[review](#)

Best maintenance practices in communications networks management are benchmarking standards that, if carefully implemented, will enhance the integrity, reliability and maintenance costs of communications networks. This paper defines best maintenance ...

5 Analysis of source policy and its effects on TCP in rate-controlled ATM networks

Lampros Kalampoukas, Anujan Varma

October 1998 IEEE/ ACM Transactions on Networking (TON), Volume 6 Issue 5

Publisher: IEEE Press

Full text available:  [pdf\(380.91 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Keywords: TCP over ATM, available bit rate (ABR) service, rate control

6 Getting proactive network management from reactive network management tools

Timothy Chiu

February 1998 International Journal of Network Management, Volume 8 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available:  [pdf\(145.53 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Typical network management tools fail to prevent network outages and downtime. Network managers can set up proactive network management with existing tools, using SNMP automatic actions, triggered by thresholds. © 1998 John Wiley & Sons, Ltd.


7 Network intrusion detection through Adaptive Sub-Eigenspace Modeling in multiagent systems



Mei-Ling Shyu, Thiago Quirino, Zongxing Xie, Shu-Ching Chen, Liwu Chang

September 2007 ACM Transactions on Autonomous and Adaptive Systems (TAAS), Volume 2 Issue 3

Publisher: ACM

Full text available:  [pdf\(1.93 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recently, network security has become an extremely vital issue that beckons the development of accurate and efficient solutions capable of effectively defending our network systems and the valuable information journeying through them. In this article, ...

Keywords: Agent communications, adaptive sub-eigenspace modeling (ASEM), agent-based distributed system, intrusion detection, network security

8 Investigating wired and wireless networks using a java-based programmable



sniffer

Michael J. Jipping, Andrew Kalafut, Nathan Kooistra, Kathleen Ludewig

June I TiCSE '04: Proceedings of the 9th annual SIGCSE conference on Innovation
2004 and technology in computer science education

Publisher: ACM

Full text available: [pdf\(248.92 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Teaching students about networking requires laboratory investigation into network data. Such investigation requires examination of both wired and wireless network data. Most available network traffic sniffers are either too expensive or too cryptic to ...

Keyw ords: java, network concepts, network sniffer, pedagogy

9 The network control assistant (NCA), a real-time prototype expert system for



network management

Perry M. Kosieniak, Victor Mathis, Michael St. Jacques, Delano Stevens

June I EA/ AIE '88: Proceedings of the 1st international conference on
1988 Industrial and engineering applications of artificial intelligence and
expert systems - Volume 1, Volume 1

Publisher: ACM

Full text available: [pdf\(846.45 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
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Prototype network management software supported by a real-time expert system to monitor and control the public telephone voice network is described. This system, called the Network Control Assistant (NCA), was mostly written in Prolog on an IBM PC/AT. ...

10 Design and analysis of large-scale wireless communications networks



Kenneth Y. Jo, Syed R. Ali

October PM2HW2N '06: Proceedings of the ACM international workshop on
2006 Performance monitoring, measurement, and evaluation of heterogeneous
wireless and wired networks

Publisher: ACM

Full text available: [pdf\(501.83 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents fundamental design and performance assessment methodologies for modern large-scale enterprise wireless communications networks comprised of many system components. Large-scale wireless networks are needed to serve mobile users in ...

Keywords: mobile ad-hoc networks, wireless networks

11 [Tracking a moving object with a binary sensor network](#)



Javed Aslam, Zack Butler, Florin Constantin, Valentino Crespi, George Cybenko, Daniela Rus

November 2003 SenSys '03: Proceedings of the 1st international conference on Embedded networked sensor systems

Publisher: ACM

Full text available: [pdf\(442.97 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

In this paper we examine the role of very simple and noisy sensors for the tracking problem. We propose a binary sensor model, where each sensor's value is converted reliably to one bit of information only: whether the object is moving toward the sensor ...

Keywords: minimalism, particle filters, sensor networks, tracking

12 [An operating system architecture for network processors](#)



Steve Muir, Jonathan Smith

October 2005 ANCS '05: Proceedings of the 2005 ACM symposium on Architecture for networking and communications systems

Publisher: ACM

Full text available: [pdf\(224.66 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Network devices have become significantly more complex in recent years, with the most sophisticated current devices incorporating one or more general-purpose CPUs as part of their hardware. The need for such processing capability is motivated by the ...

Keywords: network processors, operating systems

13 A simulation study of traffic conditioner performance

Tinus Strauss, Derrick G. Kourie, Martin S. Olivier

July 2005 SAI CSIT '05: Proceedings of the 2005 annual research conference of the South African institute of computer scientists and information technologists on IT research in developing countries

Publisher: South African Institute for Computer Scientists and Information Technologists

Full text available:  [pdf\(357.71 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article reports on the results of a simulation study to investigate the relative performance of five Differentiated Services traffic conditioners in a range of situation created by varying traffic patterns and subscription levels in a fixed topology ...

Keywords: differentiated services, simulation, traffic conditioners

14 Hierarchy schedule-sensing protocol for CDMA wireless data-centric networks with multiple packet collision and capture effect

Hsiao-Hwa Chen, Wee-Teck Tea

December 2004 IEEE/ ACM Transactions on Networking (TON), Volume 12 Issue 6 2004

Publisher: IEEE Press

Full text available:  [pdf\(905.47 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This paper focuses on performance analysis of a CDMA wireless data network based on hierarchy schedule-sensing (HSS) protocol, in which a common-code permission frame beacon is used to schedule request transmissions to avoid packet collisions. To further ...

Keywords: CDMA, capture effect, medium-access control, wireless network

15 Prioritized resource allocation for stressed networks

Cory C. Beard, Victor S. Frost

October 2001 IEEE/ ACM Transactions on Networking (TON), Volume 9 Issue 5 2001

Publisher: IEEE Press

Full text available:  [pdf\(253.05 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Overloads that occur during times of network stress result in blocked access to all users, independent of importance. These overloads can occur because of degraded resource availability or abnormally high demand. Public broadband networks must dynamically ...

Keywords: Computer network performance, resource management

16 [End-to-end delay analysis of videoconferencing over packet-switched networks](#)

Mario Baldi, Yoram Ofek

August 2000 IEEE/ ACM Transactions on Networking (TON), Volume 8 Issue 4

Publisher: IEEE Press

Full text available:  [pdf\(266.78 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Keywords: MPEG, end-to-end delay, performance guarantees, quality of service, time-driven priority, videoconference

17 [Reconfiguration of carrier assignment in cellular networks](#)

Angelos N. Rouskas, Michael G. Kazantzakis, Miltiades E. Anagnostou

December 1999 Wireless Networks, Volume 5 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(241.51 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

18 [Virtually Pipelined Network Memory](#)

Banit Agrawal, Timothy Sherwood

December 2006 MICRO 39: Proceedings of the 39th Annual IEEE/ACM International Symposium on Microarchitecture

Publisher: IEEE Computer Society

Full text available:  [pdf\(256.77 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We introduce virtually-pipelined memory, an architectural technique that efficiently supports high-bandwidth, uniform latency memory accesses, and high-confidence throughput even under adversarial conditions. We apply this technique to the network processing ...

19 [A recursive random search algorithm for large-scale network parameter](#)



[configuration](#)

Tao Ye, Shivkumar Kalyanaraman

June 2003 ACM SIGMETRICS Performance Evaluation Review, Volume 31 Issue 1

Publisher: ACM

Full text available: [pdf\(529.56 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Parameter configuration is a common procedure used in large-scale network protocols to support multiple operational goals. It can be formulated as a black-box optimization problem and solved with an efficient search algorithm. This paper proposes a new ...

Keyw ords: black-box optimization, global optimization, network management, random sampling

20 [Routing algorithms for delay-insensitive and delay-sensitive applications in](#)



[underwater sensor networks](#)

Dario Pompili, Tommaso Melodia, Ian F. Akyildiz

September 2006 MobiCom '06: Proceedings of the 12th annual international conference on Mobile computing and networking

Publisher: ACM

Full text available: [pdf\(492.59 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Underwater sensor networks consist of sensors and vehicles deployed to perform collaborative monitoring tasks over a given region. Underwater sensor networks will find applications in oceano-graphic data collection, pollution monitoring, offshore exploration, ...

Keyw ords: routing algorithms, underwater sensor networks

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